SEARCH UPDATE FOR 09/446,317 11/13/01

(FILE 'HOME' ENTERED AT 13:16:52 ON 09 NOV 2001)

FILE '	'MEDLINE'	ENTERED	AT	13:17:00	ON 09	9 NOV	2001
1 11/1/	14177771117		1 T T	13.11.00	O1 1 0.	/ I 1 O 1	2001

- L1 0 S HERPES AND THYMIDINE KINASE AND TRANSFECT? AND VITRO AND PEI
- L2 701 S HERPES AND THYMIDINE KINASE AND TRANSFECT?
- L3 1 S L2 AND POLYETHYLENEIMINE
- L4 1 S HERPES AND THYMIDINE KINASE AND TRANSFECT? AND PEI
- L5 397 S L2 AND (VITRO OR CULTUR?)
- L6 791 S COVALENT COMPLEX
- L7 156 S A COVALENT COMPLEX OF
- L8 156 S IN A COVALENT COMPLEX
- L9 1 S L6 AND (DNA OR NUCLEIC OR PLASMID OR RNA OR DEOXY) AND (PEI O

(FILE 'HOME' ENTERED AT 14:18:58 ON 09 NOV 2001)

FILE 'MEDLINE' ENTERED AT 14:19:04 ON 09 NOV 2001

- L1 133 S DEAE DEXTRAN AND TRANSFEC?
- L2 6 S L1 AND (THYMIDINE KINASE OR CYTOKINE)
- L3 612 S DEAE DEXTRAN OR DEAE-DEXTRAN
- L4 1 S L3 AND CYTOKINE
- L5 133 S L3 AND TRANSFEC?
- L6 3 S L5 AND INTERLEUKIN
- L7 0 S L5 AND (IL1 OR IL2 OR IL3 OR IL4 OR IL5 OR IL6 OR IL7 OR IL8
- L8 12 S L3 AND (INTERLEUKIN OR IL)
- L9 1 S L3 AND (TUMOR ANTIGEN OR P53)
- L10 72 S L3 AND (IFN OR INTERFERON OR CSF)
- L11 2 S L3 AND (CSF OR COLONY STIMULATING FACTOR)

FILE 'CAPLUS, EMBASE, BIOSIS' ENTERED AT 14:55:31 ON 09 NOV 2001

- L12 7 S L11
- L13 6 DUP REM L12 (1 DUPLICATE REMOVED)
- L14 19 S L2
- L15 12 DUP REM L14 (7 DUPLICATES REMOVED)
- L16 5 S L15 AND HERPES

S#

Updt

Database

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Query
                              Time
                                    Comment
S3107
   U
      USPT
           (5714166.pn.) and attach$
                            2001-11-13
                            07:52:57
S3106
   U
      USPT
           (5714166.pn.) and (polyethylene
           glycol or polyethyleneglycol or peg or
           poly(ethyleneglycol) or poly(ethylene
           glycol))
                            2001-11-13
                            07:52:15
S3105
   U
      USPT
           5714166.pn.
                            2001-11-13
                            07:50:49
S3104
   U
      USPT
           (5919442.pn. or 5714166.pn. or
           5661025.pn. or 5871710.pn.) and
           strikingly
                            2001-11-09
                            15:46:20
S3103
   U
      USPT
           (5919442.pn. or 5714166.pn. or
           5661025.pn. or 5871710.pn.) and
           deae
                            2001-11-09
                            15:12:07
S3102
   U
      USPT
```

transfec\$ and deae dextran and

2001-11-09

cytokine near5 example

```
S3101
   U
      USPT
           cytokine near5 example
                            2001-11-09
                            14:44:15
S3100
   U
      USPT
           (5919442.pn. or 5714166.pn. or
           5661025.pn. or 5871710.pn.) and
           nucleic
                            2001-11-09
                            14:00:05
S3099
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      USPT
           (5919442.pn. or 5714166.pn. or
           5661025.pn. or 5871710.pn.) and
           (peg or polyethylene glycol or
           polyethyleneglycol)
                            2001-11-09
                            13:53:01
S3098
    U
      USPT
           PEI and transfec? and (cytokine or
           tumor antigen or thymidine kinase)
                            2001-11-09
                             12:40:03
S3097
    U
      USPT
           (5919442.pn. or 5714166.pn. or
           5661025.pn. or 5871710.pn.) and
           (cytokine or antigen or thymidine
           kinase)
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PubMed	Nucleotide	Protein	Genome	Structure	PopSet	Taxonomy	ОМІМ	Book
Search Publ	Med ▼ fo	r	0 40 0000 0 000 - 15	Ays ex	entro e e e e e e e e e e e e e e e e e e e	Go	Clear	
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□ 1: Gene Ther 1997 May;4(5):409-18

Related Articles, Related Books

PubMed Services

Coupling of cell-binding ligands to polyethylenimine for targeted gene delivery.

Kircheis R, Kichler A, Wallner G, Kursa M, Ogris M, Felzmann T, Buchberger M, Wagner E.

Boehringer Ingelheim R&D, Vienna, Austria.

Related Resources

Recently the high transfection potential of the cationic polymer polyethylenimine (PEI) was described (Boussif O et al. Proc Natl Acad Sci USA 1995; 92: 7297-7301). To combine the promising DNA delivering activity of PEI with the concept of receptor-mediated gene delivery, cell-binding ligands (transferrin or antiCD3 antibody) were incorporated by covalent linkage to PEI. DNA complexes of PEI or ligand-PEI conjugates were tested for transfection of cultured neuroblastoma Neuro 2A cells, melanoma B16 or H225 cells, erythroid leukemic K562 cells and T cell leukemia Jurkat E6.1 cells. Depending on the cell line, incorporation of the cell-binding ligand resulted in an up to 1000-fold increased transfection efficiency. This activity depends on ligand-receptor interaction and was observed also at low PEI cation: DNA anion ratios where ligand-free PEI lacks efficiency. Depending on the cell-binding ligand, specific targeting (CD3 antibody, Jurkat cells) can be achieved. Gene transfer can be augmented by the addition of an endosome-destabilizing influenza peptide, but is not dependent on the presence of additional endosomolytic agents. Application of transferrin-PEI for the production of murine interleukin-2 in B16 cells resulted in exceptionally high secretion rates of 19 micrograms IL-2 protein per 10(6) cells per 24 h.

PMID: 9274717 [PubMed - indexed for MEDLINE]

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